

Title (en)  
Swing hinge device for mobile terminal

Title (de)  
Scharniergelenkvorrichtung für ein mobiles Endgerät

Title (fr)  
Dispositif à charnière pivotante pour terminal mobile

Publication  
**EP 1710987 A1 20061011 (EN)**

Application  
**EP 06007220 A 20060405**

Priority  
KR 20050028567 A 20050406

Abstract (en)  
Disclosed is a swing hinge device for semi-automatically rotating a pair of facing housings of a mobile terminal on a step-by-step basis, for use in a mobile terminal having a first housing and a second housing with a display unit rotatable around a hinge axis extending in a direction perpendicular to a top surface of the first housing, the swing hinge device includes a rotation member rotatable around the hinge axis; a plate-type swing hinge member rotatably connected to the rotation member to semi-automatically rotate the rotation member on a step-by-step basis; a power supply means mounted in the swing hinge member to supply power for semi-automatically rotating the rotation member; and at least one swing locking means formed along the perimeter of the swing hinge member to lock or release the rotation member for the step-by-step interrupted rotation of the rotation member.

IPC 8 full level  
**H04M 1/02** (2006.01)

CPC (source: EP KR US)  
**F16B 15/02** (2013.01 - KR); **F16B 15/06** (2013.01 - KR); **H04M 1/0227** (2013.01 - EP US); **H04M 1/0233** (2013.01 - EP US);  
**H04M 1/0266** (2013.01 - EP US)

Citation (applicant)  
• US 2003013417 A1 20030116 - BUM JAE RYONG [KR]  
• US 2004121826 A1 20040624 - MA YAWEI [CN], et al  
• EP 1594292 A1 20051109 - SAMSUNG ELECTRONICS CO LTD [KR]

Citation (search report)  
• [XY] US 2003013417 A1 20030116 - BUM JAE RYONG [KR]  
• [Y] US 2004121826 A1 20040624 - MA YAWEI [CN], et al  
• [XP] EP 1594292 A1 20051109 - SAMSUNG ELECTRONICS CO LTD [KR]  
• [A] WO 2005026562 A1 20050324 - OMRON TATEISI ELECTRONICS CO [JP], et al & EP 1666743 A1 20060607 - OMRON TATEISI ELECTRONICS CO [JP], et al

Designated contracting state (EPC)  
DE FR GB

DOCDB simple family (publication)  
**EP 1710987 A1 20061011**; **EP 1710987 B1 20110622**; CN 100527758 C 20090812; CN 1845560 A 20061011; KR 100630069 B1 20060927;  
US 2006225249 A1 20061012; US 7865151 B2 20110104

DOCDB simple family (application)  
**EP 06007220 A 20060405**; CN 200610073133 A 20060406; KR 20050028567 A 20050406; US 37036406 A 20060308